Contents of Volume 36

No. 1. JANUARY 1956

Relation Between Chemical and Contractile Function and Structure of Skeletal Muscle Cell ..... *S. V. Perry* 1

Estimations of Cardiac Output and Central Blood Volume by Dye Dilution ..... *Philip Dow* 77

Metabolism of Glutamine ..... *Alton Meister* 103

Responses of Body Fluid Compartments to Heat and Cold *David E. Bass and Austin Henschel* 128

No. 2. APRIL 1956

Physiology of the Compound Eye ..... *V. J. Wulff* 145

Enzymatic and Metabolic Adaptations in Animals *W. E. Knox, V. H. Auerbach and E. C. C. Lin* 164

Renewal of Cell Populations ..... *C. P. Leblond and Bruce E. Walker* 255

Artificial Insemination ..... *C. W. Emmens and A. W. Blackshaw* 277

No. 3. JULY 1956

Human Physical Fitness With Special Reference to Sex and Age *P.-O. Astrand* 307

Blast Injury ..... *Carl-Johan Clemedsen* 336

Electrical Influences and Speed of Chemical Change in the Brain *Henry McIlwain* 355

Natural History of the Nerve Impulse ..... *George H. Bishop* 376

Anatomy and Physiology of Ventricular Function *Robert F. Rushmer* 400

No. 4. OCTOBER 1956

Regeneration of Axons in the Vertebrate Central Nervous System *William F. Windle* 427

Regeneration in the Mammalian Peripheral Nervous System *Lloyd Guth* 441

Blood Coagulation, With Particular Reference to the Early Stages *R. G. Macfarlane* 479

Mechanical and Chemical Events in Muscle Contraction *Fritz Buchtal, Ole Svensmark and Poul Rosenfalck* 503